

BATTLE McCARTHY ©

Consulting Engineers & Landscape Architects



PROJECT:

Jubilee Campus, University of Nottingham

CLIENT:

University of Nottingham

ARCHITECTS:

Hopkins Architects Ltd.

BM SERVICES:

Landscape Architecture, Infrastructure
& Sustainable Masterplanning

VALUE:

£25.5million (approx)

DESIGN BRIEF

To design a university campus with Hopkins Architects including three faculty buildings, a learning resource centre, teaching and catering facilities and both undergraduate and postgraduate accommodation based on sustainable principles.

DESIGN INITIATIVES/ACTIONS UNDERTAKEN

The new faculty buildings exploit the south-westerly aspect of the site to provide wind-assisted ventilation. A 1.2 hectare lake harvests rainfall from surrounding buildings, roads and car parks whilst providing free cooling and the formal setting for a new learning resource centre and lakeside promenade. The prevailing winds, cooled by passing over the lake, are harvested by wind scoops and used for passive summer cooling.

Water quality in the lake is maintained by using a combination of mechanical and natural systems including substantial areas of floating, submerged and marginal oxygenating aquatic planting and a compressed-air aeration system. Care was taken to utilise native and non-invasive wetland plants characteristic of the Nottingham area.

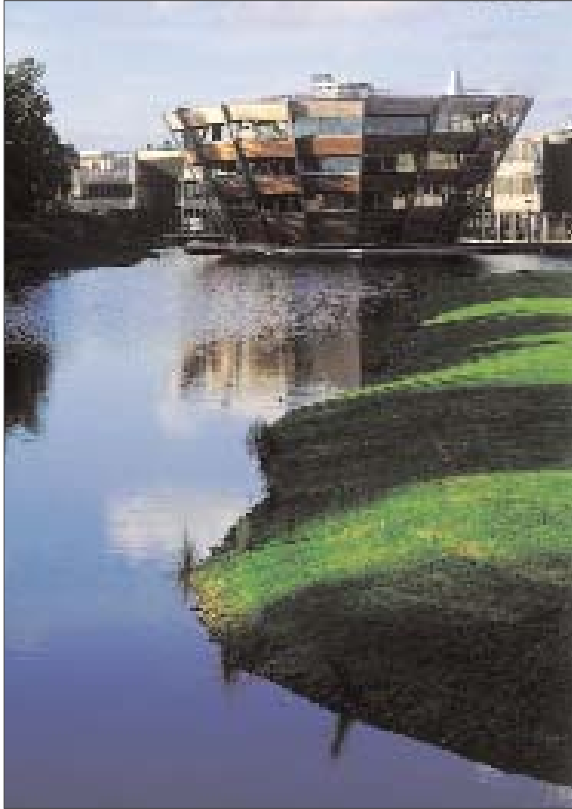
Physic-chemical analysis of excavated spoil was carried out to identify the presence of phytotoxic and zootoxic compounds and determine the nutrient status of the material. By grading and mixing the various materials on site, a low nutrient status subsoil was produced. This was used as a lake substrate and as a sub-soil on top of the landforms. In total, approximately 4500 m³ of excavated material was recycled within the landscape.



AWARDS

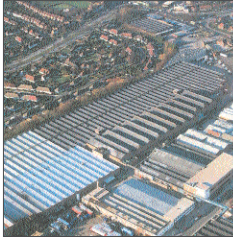
Civic Trust Award Sustainability	2002
RIBA Sustainability Award	2001
Environment Award for Engineers Award (Commended)	2000
<i>Engineering Alternatives</i>	

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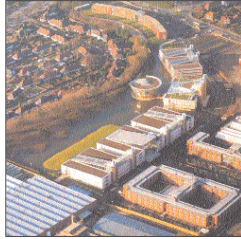


The vegetated landscape does not stop at the ground plane, but extends to the roofs of the buildings which are covered with stonecrop and attract a wide range of birds and insect life.

The overall aim has been to allow a series of balanced internal and external eco-systems to develop of their own accord. The overall result is low-energy, low maintenance with a strong synergy between the built form and the wider landscape, and with clear emphasis on multi-functionality.



Aerial view - before



Aerial view - after



The promenade



Landforms and ecological hinterland



Landscape Masterplan